ASBESTOS - Fresho Co. - Santa Cruz Mine

SFUND RECORDS CTR 1633-00374

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## STATE OF CALIFORNIA — THE RESOURCES AGENCY DEPARTMENT OF CONSERVATION DIVISION OF MINES AND GEOLOGY

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#### MINERAL PROPERTY REPORT \*

Santa Cruz Mine, Joaquin Ridge	T 11 V 13 2 cm
Nome of Property (Atlas Asbestos Co.)	DM.G investigator F. R. Kelley
	Date of field visit 5-16-74
County Fresno	Date of office data review AS 29 74
TOWNSHIP	Date submitted to M.R.C. 37 5 74
	Date approved by M.R.C. 9-12-74 USE.
Santa Rita Peak 7%' Quadrangle	

Location, accessibility, & physiography:

(SE/4 Idria 15' Quad.)

Mine and mill are high up on southerly slope of Joaquin Ridge, elev. about 4260'. Slope descends steeply southward into upper White Creek, dropping 1600' elev. in 8400' horizontal distance (19%), and irregular, cut by gullies with intervening dissected ridges. Property reached from Los Gatos Creek road, turning off to east about 23 miles northwest of Coalinga on unpaved White Creek road. About 4½ miles from turnoff, road leaves creek and climbs spur ridges to plant, which is about 8 miles from Los Gatos road turnoff.

Ownership, Lease holders, Intermediaries:

Atlas Asbestos Co. 1145 Westminster Ave. Alhambra, Ca. 91802 Ph. (213) 283-9121 Mine & mill office: 6th & Railroad Coalinga, Ca. 93210 P.O. Box 805

Sales Manager: W.R.Whitener (209) 935-2901

Superintendant: Mel Berlund (209) 935-2592

Company holds considerable acreage under lease in Sections 31 &32, in part History, Production & Marketing. government land, in part private.

Active prospecting for asbestos began in this area in 1959. In 1962, Atlas Metals Div. of Atlas Corp. acquired a large number of claims in the southern part of the ore body, and completed a mill at the site in 1963, initial capacity reported as 15,000 tons/year. Atlas Corp. sold the operation in 1968, reporting a loss of \$1,056,485 (Std. & Poores, Corp. Records, Dec-Jan '73-'74) Now operated by Atlas Asbestos Co. which processes ore at the site, turning out asbestos fiber packaged in plastic & paper bags which are trucked to Port of Oakland, their Coalinga warehouse, or other markets (including suppliers Geology & Mineralogy: of drilling mud).

Deposit is part of a large mass of sheared serpentine about 4 X 14 miles in dimensions, which makes up the exposed core of the Coalinga anticline, on the eastern flanks of the Diablo Range. The serpentine core has steeply-dipping Mesozoic and Tertiary marine sediments around its flanks, and is intensely sheared with much of its southeast portion altered to a flaky material made up largely of matted, short-fiber chrysotile. Fibers are oriented along the shear planes ("slip-fiber" type). Only short-fiber grades of asbestos are produced in this district (most of world production is of short-fiber types), but the Coalinga material is whiter and more oil-absorbent than that from most other sources.

Much of the ground surface is loose whitish serpentine debris, probably slide material, with occasional harder rocky outcrops. Vegetation is absent on many of these serpentine slopes, or is made up only of sparse chaparral and a few larger trees in some places.

Attach index, claim, geologic maps, sketches, photos, assay results, production data, smelter shipments, other reports or important data of any kind.



Mining & Waste Disposal:

The deposit is mined on an open hillside, using a series of benches. Only small amounts of overburden and vegetation need to be removed, and the sheared serpentine is "plowed" to loosen it and allowed to air-dry, after which it is picked up in carryall graders and stockpiled in the area north of the mill. Enough is mined and stockpiled in a few weeks to supply the mill for a year. Two pits have been developed, the older "Rover pit" and the newer "Santa Cruz pit" higher on the hill slope.

The mill feed from the stockpile goes through a 6" grizzly and a screening operation, then is dried in a rotary kiln to about 2% moisture. In recent months, the price of fuel oil for the kiln has increased until it is now the largest cost item of the operation. In the main milling process, the dried feed goes through a number of screening and air flotation stages, and the product, several grades of fluffy, fibrous asbestos powder, is packed in plastic or paper bags ready for the market.

The dry waste is disposed of in waste piles in the vicinity of the plant.

Environmental Consideration – such as zoning restrictions & problems, land use permits, land reclamation plans, air & sound factors, water use & water quality problems.

The company has been ordered by water pollution control authorities to take steps to prevent drainage from waste pile areas from entering White Creek.

Since most of the mountainside of Joaquin Ridge drains into White Creek, and over many square miles is covered with finely-divided serpentine debris, it would appear inevitable that the natural drainage would already contain large amounts of chrysotile asbestos fiber.

### Conclusions and/or recommendations:

This operation is a valuable source of raw materials contributing to the state's economy, extracting a previously undeveloped resource from an area that in the past has had little economic potential.

#### References:

Rice, S.J., 1963, California Asbestos Industry; Mineral Info. Service, v. 16, no. 9, pp. 1-7.

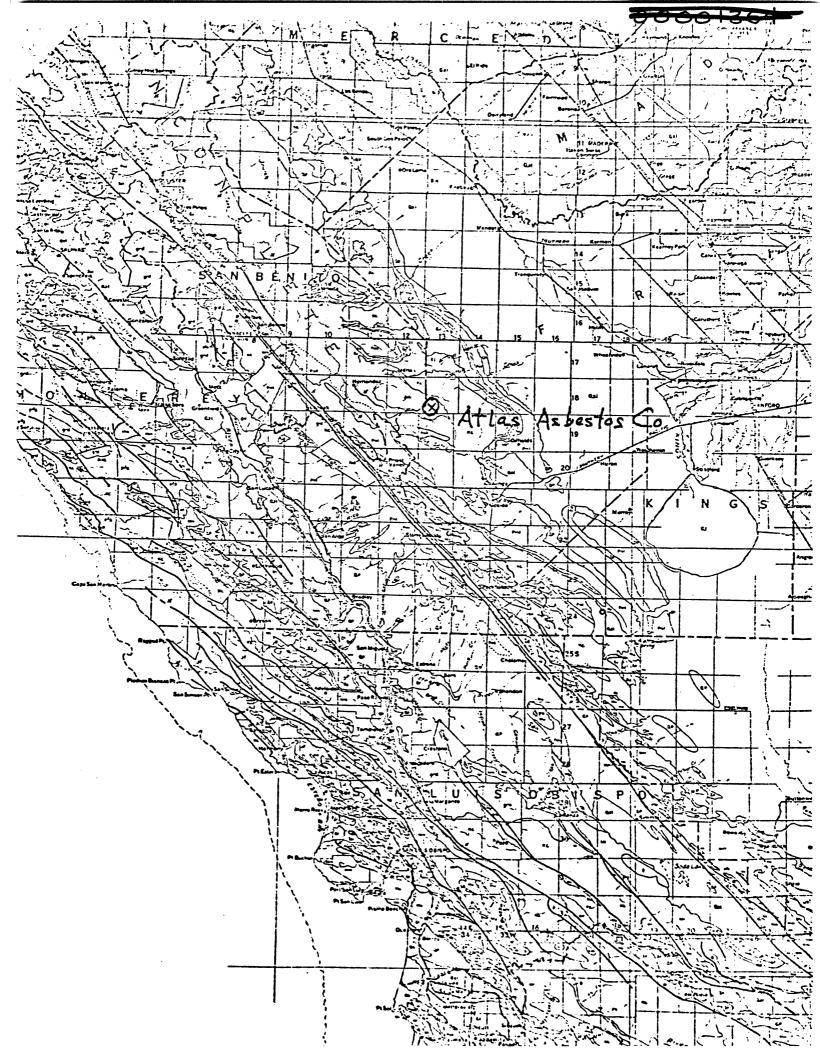
Rice, S.J., 1966, Asbestos, in Mineral Resources of Calif., Div. Mines Bull. 191, pp. 86-92.

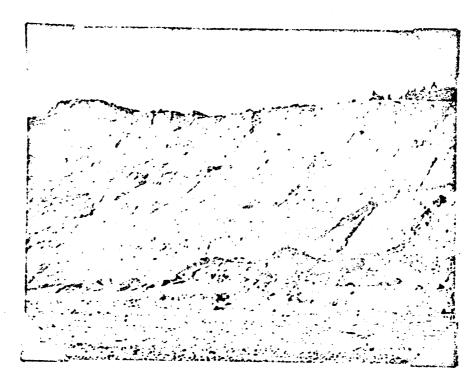
May, T.C. & Lewis, R.W., 1970, Asbestos, U.S.B.M. Bull. 650, pp.851-863.

Index map showing location of mine and plant.

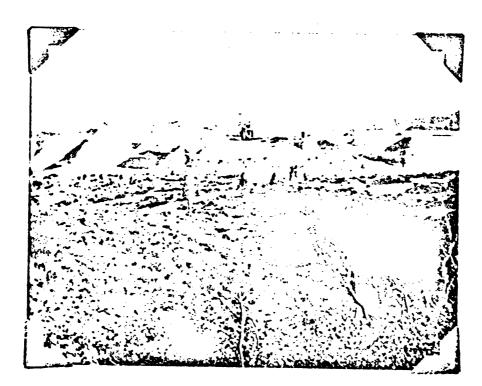
Topographic map of mine vicinity.

Photographs of operation.





Face of Santa Cruz pit, Atlas Asbestos Co. mine; showing benches and pile of oversize waste in foreground near automobile (5-16-74).



Atlas Asbestos Co. mill, showing stockpiles on right, waste piles on left; view looking southwest (5-16-74).

# STATE OF CALIFORNIA — THE RESOURCES AGENCY DEPARTMENT OF CONSERVATION DIVISION OF MINES AND GEOLOGY

### CUSTOM MILL and /or PROCESSING PLANT REPORT \*

Name of mill or plant Santa Cruz Mill, Atlas Asbestos Co	D.M.G. investigator F. R. Kelley
Commodities milled and/or processed Asbestos -	Date of field visit May 16, 1974
(chrysotile serpentine)	Date of office data review,
county Fresmo	Date submitted to M.R.C. SP 5 74
Township 18 south Ronge 13 east Section 32, NW 1/4	Date approved by M.R.C. 9/12/74 C/R.E.
Township 18 South Range 13 east Section 32, NW 1/4 Latitude 36 19.3 N. Longitude 120 35.0 W	

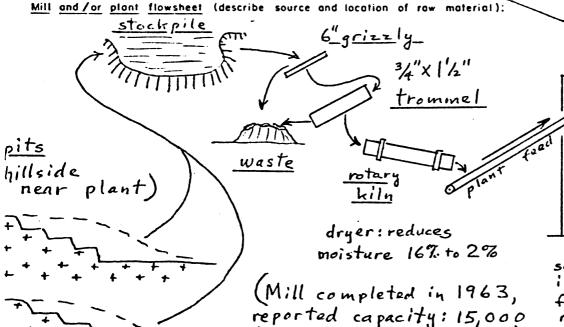
Location: Western Fresho Co., high up on southerly slope of Juaquin Ridge. Reached by turn-off from Los Gatos Creek Rdabout 23 miles northwest of Coalinga, and 8 miles of gravel road, by way of upper White Creek and steep ridge to millsite

Ownership:

Atlas Asbestos Co.
1145 Westminster Ave.
Alhambra, Calif. 91802
Ph.- (213) 283-9121

Mine + mill office: 6th + Railroad Coalinga, Ca. 93210 P.O. Box 805 Sales Manager: W R Whitener (209) 935-2901 Superintendent: Mel Berlund (209) 935-2592

plant



(several stages of screening and air classification; product is a fine powder, bagged and ready for shipment)

Trade names, and avoilability of milled and/or processed products:

Atlas markets powdered as bestos fiber in four main grades: "AZ-20", "AZ-25", "AZ-100" and "AZ-150".

The plant also supplies as bestos for three drilling-mud companios, Dresser, Halliburton and \_\_\_\_\_\_, packaging it here in the mud companies' own bags.

\*\*Altoch published literature, sketches, photos, odvertisements or important doto of any kind. (Over)

tons of fiber per year.)

Much of this plant's output is trucked to Oakland and sent by ship to the East Coast. Part goes by truck to the Southwest (New Mexico, Arizona, etc). Output is sent about 70% by truck, 30% by rail.

### W. R. WHITENER

ATLAS ASBESTOS Co.

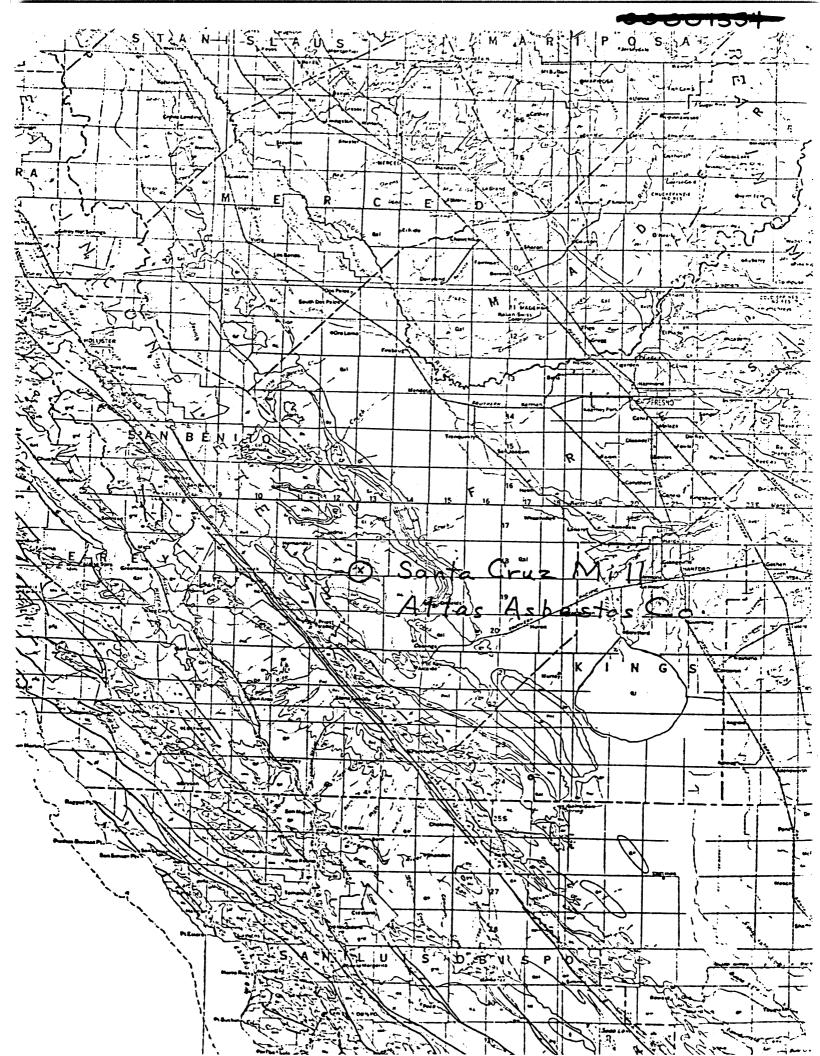
1145 WESTMINSTER AVE. ALHAMBRA, CALIF. 81802 213 - 283-9121 MINE AND MILL OFFICE: P. O. BGX 803 COALINGA, CALIF, 93210 209 - 935-2901

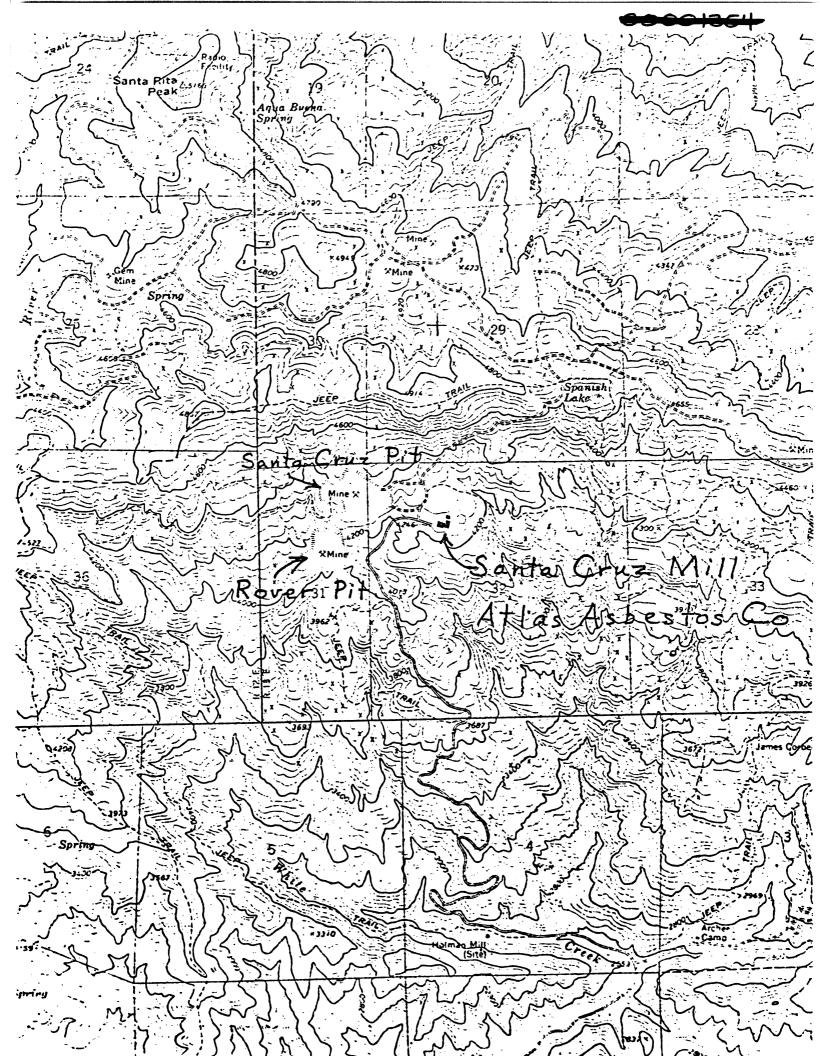
### MEL BERLUND

SUPERINTENDENT

ATLAS ASBESTOS CO. 1149 WESTMINETER AVE. ALMAMBRA, CALIF, 91802 213 - 203-9121

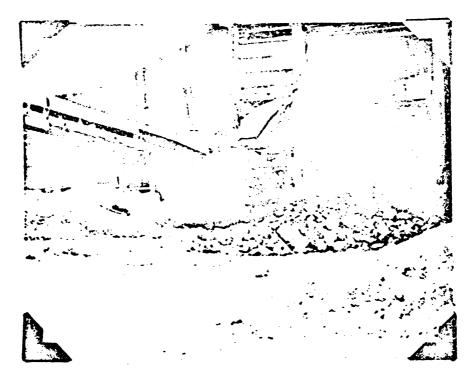
MINE AND MILL OFFICE: P.O. BOX 805 COALINGA, CALIF, 93210 209 - 935-2592



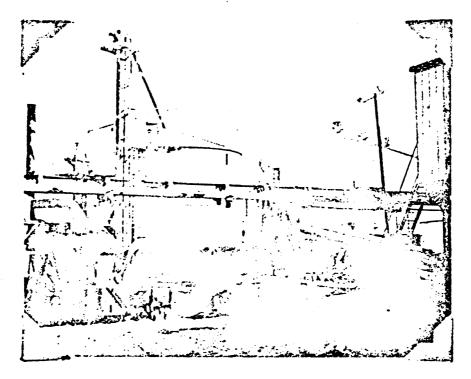




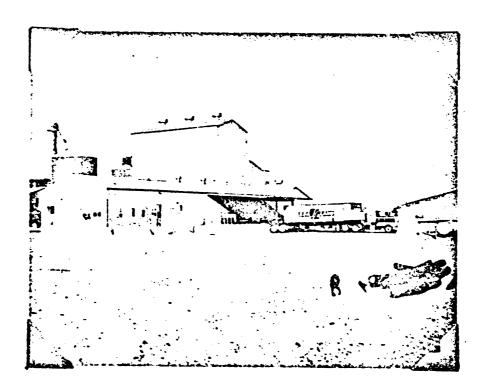
Atlas Asbestos Co., showing stockpile, with loader preparing to dump scoop of raw ore into grizzly; main mill building at left (5-16-74).



Six-inch grizzly at Atlas Asbestos Co. mill; conveyor at left carries ore to rotary kiln (5-16-74).



Rotary kiln, for drying screened asbestos-ore mill-feed down to 2% moisture; elevated conveyor carries oversize screenings enroute to waste pile, right to left across center of photo (5-16-74).



Main mill building and loading dock, Atlas Asbestos Co. (5-16-74).